

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,225	11/19/2003	Hiromasa Tanobe	5259-000034	6024
	7590 02/06/200 CKEV & PIERCE P I		EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828			SINGH, DALZID E	
BLOOMFIELL	D HILLS, MI 48303	•	ART UNIT	PAPER NUMBER
			2613	
•				
			MAIL DATE	DELIVERY MODE
			02/06/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Summan	10/717,225	TANOBE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Dalzid Singh	2613					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirn iiii apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. sely filed the mailing date of this communication. O (35 U.S.C. 8 133)					
Status							
1)⊠ Responsive to communication(s) filed on 04 Oc	Responsive to communication(s) filed on 04 October 2007.						
, <u> </u>							
· —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•					
4)⊠ Claim(s) <u>1-118</u> is/are pending in the application	◯ Claim(s) 1-118 is/are pending in the application						
4a) Of the above claim(s) <u>34-118</u> is/are withdray		· ·					
5)⊠ Claim(s) <u>33</u> is/are allowed.	· · · · · · · · · · · · · · · · · · ·						
6)⊠ Claim(s) <u>1</u> is/are rejected.							
7)⊠ Claim(s) <u>2-32</u> is/are objected to.		•					
8) Claim(s) are subject to restriction and/or	election requirement	•					
Application Papers		,					
9) The specification is objected to by the Examiner							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119	•						
12) Acknowledgment is made of a claim for foreign r a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-	-(d) or (f).					
1. Certified copies of the priority documents	have been received.						
2. Certified copies of the priority documents	have been received in Application	on No					
3. Copies of the certified copies of the priorit	ty documents have been received	d in this National Stage					
application from the International Bureau	(PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list o	f the certified copies not received	i .					
Attachment(s)	ΛΠ	DTO 440)					
1) 1 Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)						
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa 6) Other:						

10/717,225 Art Unit: 2613

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claim 1 is rejected under 35 U.S.C. 102(a) as being anticipated by Chae in the article "A Protected Optical Star-Shaped Ring Network Using an N \times N Arrayed Waveguide Grating and Incoherent Light Sources"

Regarding claim 1, Chae discloses an optical communication system, as shown in Fig. 1, comprising:

an NxN wavelength path establishment circuit (NxN AWG) having N input ports and N output ports, N being an integer of at least 2, outputting light input from an input port to a different output port depending on the wavelength of the input light, and the wavelength of light output from an output port being different depending on the input port;

n communication nodes, n being an integer at least 2 and not greater than N, for outputting information of an input optical data signal, as is or after changing a part of the information, as an optical data signal of a predetermined wavelength; and

optical waveguides for connecting the input ports and the output ports of the NxN wavelength path establishment circuit, and the communication nodes, wherein for

10/717,225

Art Unit: 2613

at least some of the n communication nodes, in order to form at least one logical-ring transmission path where an optical data signal transmitted from one communication node returns to the one communication node via other communication nodes, a correlation of wavelengths for connecting between the input ports and the output ports of the NxN wavelength path establishment circuit, wavelengths of optical data signals output from the respective communication nodes, and connections between the input ports and the output ports of the NxN wavelength path establishment circuit, and the respective communication nodes are set (it is inherent that the wavelength is capable of returning to the originating node since the system is a ring network).

Allowable Subject Matter

- 3. Claim 33 is allowed.
- 4. Claims 2-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 34-118 have been withdrawn from consideration; however such claims must be cancelled prior to allowance.

Response to Arguments

6. Applicant's arguments with respect to claim 1 have been considered but are most in view of the new ground(s) of rejection.

10/717,225 Art Unit: 2613

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalzid Singh whose telephone number is (571) 272-3029. The examiner can normally be reached on Mon-Fri 9am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

January 11, 2008

DALZID SINGH PRIMARY EXAMINER Dabid Singh